

Table 1: Overview of precollege STEM programs

Program name + description	Notable recruitment practices
<p>Gene Team</p> <p>STEM Area: Biology</p> <p>Learn more at: https://www.biology.pitt.edu/k-12-outreach/gene-team</p> <hr/> <p>Four-week summer program with stipend that immerses high school students in authentic research projects in one of the biological science research labs at the University. Students work full time as a team to advance the research and return data and products to the host lab while strengthening their biology and critical-thinking skills. They also receive mentoring on preparing for college and how to be successful in an undergraduate STEM program.</p>	<ul style="list-style-type: none">• Serves youth from the local urban school district and charter schools within the district’s catchment area.• Provides program leader relationships and professional development with K–12 science teachers, all biology teachers and school-to-career office in local urban school district.
<p>Hillman Academy</p> <p>STEM Area: Engineering</p> <p>Learn more at: https://www.engineering.pitt.edu/Student/Student-Programs/Investing-Now/</p> <hr/> <p>Eight-week summer program for high school students to engage in cancer research by working in laboratories directed by faculty mentors across the university campus. Students spend the majority of their time working with mentors but also receive didactic instruction, tour cancer care and research facilities, participate in journal clubs, and attend presentations by professionals in the field.</p>	<ul style="list-style-type: none">• Recruits REM students, but also students who are underrepresented in STEM for other reasons, including disability status.• Provides stipend to minoritized students and those meeting federal poverty levels.• Builds relationships and takes student recommendations from local organizations.
<p>INVESTING NOW</p> <p>STEM Area: Biomedical Research</p> <p>Learn more at: https://www.engineering.pitt.edu/Student/Student-Programs/Investing-Now/</p> <hr/> <p>Year-round program for youth from groups underrepresented in STEM entering eighth grade or above. The program prepares youth for undergraduate STEM programs and supports students and their families in the college process. Students participate in hands-on science experiences, career and college planning seminars, and academic advising. Students with less than a B in mathematics or science classes are required to attend tutoring each week. In the summer, students participate in non-credit classes and engineering project work at the University.</p>	<ul style="list-style-type: none">• Focuses primarily on REM students.• Directly connects with communities of color and families.• Works closely with caregivers in recruitment and throughout programming.

Table 1: Overview of precollege STEM programs [continued]

Program name + description	Notable recruitment practices
<p data-bbox="48 220 860 283">Technology Leadership Initiative (TLI)</p> <p data-bbox="48 283 860 325">STEM Area: Computer/Information Science</p> <p data-bbox="48 325 860 378">Learn more at: https://tli.cs.pitt.edu</p> <hr data-bbox="48 388 1575 392"/> <p data-bbox="48 409 860 787">A 2.5-week introduction to the field of computer science. High school students learn about hardware, operating systems, big data, web design, human/computer interaction, natural language processing, artificial intelligence, programming with Java and Python, mobile application development, as well as the benefits of a computer science or information science degree and future career pathways.</p>	<ul data-bbox="860 409 1575 567" style="list-style-type: none"><li data-bbox="860 409 1575 462">• Recruits REM youth, as well as white girls.<li data-bbox="860 472 1575 567">• Visits all local urban district high schools and connects with guidance counselors.